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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/551,652	09/29/2005	Patrick Alexandre	125319	5677
25944 OLIFF & BERI	7590 02/14/200 RIDGE, PLC	EXAMINER		
P.O. BOX 3208	350	MACNEILL, ELIZABETH		
ALEXANDRIA, VA 22320-4850			ART UNIT	PAPER NUMBER
			3767	
			MAIL DATE	DELIVERY MODE
			02/14/2008	PAPER

# Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)	
	10/551,652	ALEXANDRE ET AL.	
Office Action Summary	Examiner	Art Unit	
	ELIZABETH R. MACNEILL	3767	
The MAILING DATE of this communication a Period for Reply	ppears on the cover sheet with the	correspondence address	
A SHORTENED STATUTORY PERIOD FOR REF WHICHEVER IS LONGER, FROM THE MAILING  - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period.  - Failure to reply within the set or extended period for reply will, by stat Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATIO 1.136(a). In no event, however, may a reply be ti od will apply and will expire SIX (6) MONTHS fron ute, cause the application to become ABANDON	N. mely filed n the mailing date of this communication. ED (35 U.S.C. § 133).	
Status			
1) ☐ Responsive to communication(s) filed on 14 2a) ☐ This action is FINAL. 2b) ☐ This action is FINAL. 2b) ☐ This action is application is in condition for allow closed in accordance with the practice under	nis action is non-final. vance except for formal matters, pr		
Disposition of Claims			
4) ☐ Claim(s) 1-12 is/are pending in the application 4a) Of the above claim(s) is/are withdress 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-12 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and	rawn from consideration.		
Application Papers			
9) The specification is objected to by the Exami  10) The drawing(s) filed on is/are: a) and an applicant may not request that any objection to the Replacement drawing sheet(s) including the correct of the oath or declaration is objected to by the	ccepted or b) objected to by the ne drawing(s) be held in abeyance. Seection is required if the drawing(s) is objection.	ee 37 CFR 1.85(a). pjected to. See 37 CFR 1.121(d).	
Priority under 35 U.S.C. § 119			
12) ☐ Acknowledgment is made of a claim for foreign a) ☐ All b) ☐ Some * c) ☐ None of:      1. ☐ Certified copies of the priority docume 2. ☐ Certified copies of the priority docume 3. ☐ Copies of the certified copies of the priority docume application from the International Bure * See the attached detailed Office action for a limit	ents have been received. ents have been received in Applica riority documents have been receive eau (PCT Rule 17.2(a)).	tion No red in this National Stage	
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO/SB/08)  Paper No(s)/Mail Date	4) Interview Summar Paper No(s)/Mail I 5) Notice of Informal 6) Other:	oate	

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#### **DETAILED ACTION**

### Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 15 January 2008 has been entered.

## Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1-4 are rejected under 35 U.S.C. 103(a) as being unpatentable over Landau et al (US 2002/0188250) in view of Castellano et al (US 5,730,723) and Schwebel et al (US 3,802,430).

Landau teaches a needleless injector with a body (12), an initiation device (34), a compressed gas source (24), a reservoir (14), a housing (24), wherein the gas source is disposed in a cartridge (24) in the housing which may be inserted into the body in an assembled state independently of the other elements in the circuit (Fig 3). The body further comprises an opening (38) which the cartridge closes off. Landau does not teach the use of a pyrotechnic charge.

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Castellano teaches that gas powered injectors are equivalents of pyrotechnic charges (Col 4 lines 25-28) but does not discuss the particulars of a pyrotechnic charge. Schwebel teaches a disposable pyrotechnic injector with a charge (25), a frangible seal (between 25 and 43), a primer (28) and a percussion device (27), and expansion chamber (43).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to use the replaceable cartridge design of Landau with the pyrotechnic charge of Schwebel since it is well known in the art, as taught by Castellano, that gas powered injectors and pyrotechnic injectors are functional equivalents and may be predictably substituted for one another.

2. Claims 5-12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Landau as applied to claims 1-4 above, and further in view of Bellhouse et al (US 6,328,714).

Landau does not teach the U-shaped circuit or L-shaped cartridge and housing.

Bellhouse teaches a needleless injector with a body (2), an initiation device (32), a compressed gas source (22), a reservoir (24), a housing (4), wherein the gas source is disposed in a cartridge (20) which maybe inserted into the housing in an assembled state independently of the other elements in the circuit (Fig 7). The body further comprises an opening (56) which the cartridge closes off. Figs 1,3, and 7. The initiation device is a percussive device (32). The circuit forms a U-shape, with the cartridge forming an L-shape (Fig 1).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to use to U-shape and L-shape of Bellhouse with the needleless injection system of Landau as an alternative arrangement for the replaceable pieces which control the pressure of the gas generated.

### Response to Arguments

3. Applicant's arguments with respect to claims 1-12 have been considered but are moot in view of the new ground(s) of rejection.

#### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to ELIZABETH R. MACNEILL whose telephone number is (571)272-9970. The examiner can normally be reached on 9:00-5:30 M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kevin Sirmons can be reached on (571) 272-4965. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

ERM
/Kevin C. Sirmons/
Supervisory Patent Examiner, Art Unit 3767